WHAT IS CLAIMED IS:

- 1 1. A method for transferring files among devices in a network, comprising
- 2 the steps of:
- 3 requesting a transfer of a file from a source device;
- scheduling the transfer of the file to be completed by a deadline; and
- 5 transferring the file from the source device to a destination device, where
- 6 the file transfer is complete by the deadline.
- 1 2. The method of claim 1, wherein the step of scheduling includes
- 2 determining available bandwidth at the source device and the destination
- 3 device.
- 1 3. The method of claim 1, wherein the step of scheduling includes
- 2 determining available storage at the destination device.
- 1 4. The method of claim 1, wherein a user at the destination device specifies
- 2 the deadline.
- 1 5. The method of claim 1, further comprising the step of identifying the file
- 2 to be transferred from the source device.
- 1 6. The method of claim 5, wherein a user at the destination device identifies
- 2 the file to be transferred from the source device.

- 1 7. The method of claim 5, wherein a pre-fetch module at the destination
- 2 device identifies the file to be transferred from the source device.
- 1 8. The method of claim 7, wherein the pre-fetch module is configured to
- 2 identify files to be transferred based on observations of user behavior.
- 1 9. The method of claim 7, wherein the pre-fetch module is configured to
- 2 identify files to be transferred according to predetermined user preferences.
- 1 10. The method of claim 1, wherein a device other than the destination
- 2 device requests the file transfer from the source device.
- 1 11. A system for transferring files among devices in a network, comprising:
- a destination device configured to send a request for transfer of a file;
- a source device configured to transfer the file to the destination device;
- 4 and
- a scheduling module configured to schedule the transfer of the file from
- 6 the source device in response to the request.
- 1 12. The system of claim 11, wherein the scheduling module schedules the
- 2 transfer to be complete by a deadline.

- 1 13. The system of claim 12, wherein a user at the destination device specifies
- 2 the deadline.
- 1 14. The system of claim 13, wherein a user at the destination device
- 2 identifies the file to be transferred from the source device.
- 1 15. The system of claim 11, wherein the destination device includes a pre-
- 2 fetch module configured to identify the file to be transferred from the source
- 3 device.
- 1 16. The system of claim 15, wherein the pre-fetch module is configured to
- 2 identify files to be transferred based on observations of user behavior.
- 1 17. The system of claim 15, wherein the pre-fetch module is configured to
- 2 identify files to be transferred according to predetermined user preferences.
- 1 18. The system of claim 11, wherein the scheduling module schedules the
- 2 transfer of the file based on available bandwidth at the source device and the
- 3 destination device.
- 1 19. The system of claim 11, wherein the scheduling module schedules the
- 2 transfer of the file based on available storage at the destination device.

- 1 20. The system of claim 11, wherein the scheduling module schedules the
- 2 transfer of the file based on available bandwidth in the network.
- 1 21. The system of claim 11, wherein the scheduling module resides at the
- 2 source device.
- 1 22. The system of claim 11, wherein the scheduling module resides at the
- 2 destination device.
- 1 23. The system of claim 11, wherein the scheduling module resides in both
- 2 the destination device and the source device.
- 1 24. The system of claim 11, wherein the scheduling module resides in a
- 2 cache device in the network.
- 1 25. The system of claim 11, wherein the scheduling module resides in the
- 2 destination device, the source device, and a cache device in the network.

- 1 26. A method for transferring files among devices in a network, comprising
- 2 the steps of:
- 3 identifying a file to be transferred to a destination device;
- 4 selecting a source device to transfer the file; and
- scheduling the transfer of the file from the selected source device to the
- 6 destination device.
- 1 27. The method of claim 26, wherein the source device identifies the file to be
- 2 transferred.
- 1 28. The method of claim 27, wherein the source device identifies the file
- 2 according to a user subscription.
- 1 29. The method of claim 27, wherein the source device identifies the file
- 2 according to observations of user behavior transferred from the destination
- 3 device.
- 1 30. The method of claim 26, further comprising the step of completing
- 2 transfer of the file to the destination device by a deadline.
- 1 31. The method of claim 27, wherein a device in the network that is not the
- 2 source device or the destination device identifies the file to be transferred.

- 1 32. The method of claim 31, wherein a user at the device in the network
- 2 identifies the file to be transferred from the source device to the destination
- 3 device.
- 1 33. The method of claim 31, wherein a user at the device in the network
- 2 determines a deadline for completion of the transfer of the file.
- 1 34. The method of claim 26, wherein the step of scheduling includes
- 2 determining available bandwidth at the source device and the destination
- 3 device.
- 1 35. The method of claim 26, wherein the step of scheduling includes
- 2 determining available bandwidth in the network.
- 1 36. The method of claim 26, wherein the source device is a server.
- 1 37. The method of claim 26, wherein the source device is a cache device in
- 2 the network.

- 1 38. A system for delivering content in a network, comprising:
- 2 a client configured to send a request for delivery of the content;
- a scheduling module configured to determine a schedule for delivery of
- 4 the content; and
- a server configured to deliver the content to the client according to the
- 6 schedule.
- 1 39. The system of claim 38, wherein the content is delivered to the client
- 2 without a user being present at the client during delivery.
- 1 40. The system of claim 38, wherein the scheduling module resides at the
- 2 server.
- 1 41. The system of claim 38, wherein the scheduling module resides at the
- 2 client.
- 1 42. The system of claim 38, wherein the scheduling module resides in a
- 2 control server in the network.
- 1 43. The system of claim 42, wherein the control server monitors bandwidth
- 2 and storage resources in the network and provides bandwidth and storage
- 3 resources data to the scheduling module.

- 1 44. The system of claim 38, wherein the server attaches digital rights
- 2 management rules to the content prior to delivery.
- 1 45. The system of claim 38, wherein the client includes a digital rights
- 2 management module configured to implement digital rights management rules
- 3 attached to the content.
- 1 46. The system of claim 38, wherein the client is a general-purpose
- 2 computer.
- 1 47. The system of claim 38, wherein the client is a set-top box.
- 1 48. The system of claim 38, wherein the request for delivery includes a
- 2 deadline for delivery, the scheduling module determines a schedule for delivery
- 3 to meet the deadline, and the server completes delivery of the content to the
- 4 client by the deadline.
- 1 49. The system of claim 38, wherein the client includes a pre-fetch module
- 2 configured to pre-fetch content from the server.
- 1 50. The system of claim 49, wherein the pre-fetched content is stored in a
- 2 cache at the client.

- 1 51. The system of claim 50, wherein the client includes a mini web server
- 2 that is configured to receive a request for content from a browser, determine
- 3 that the requested content resides in the cache as pre-fetched content, and
- 4 send the requested content from the cache to the browser instead of requesting
- 5 the content from the server.
- 1 52. The system of claim 50, wherein specifically requested content is stored
- 2 in the cache at the client.
- 1 53. The system of claim 52, wherein the client includes a cache management
- 2 module configured to determine the size of the cache.
- 1 54. The system of claim 52, wherein the client includes a cache management
- 2 module configured to organize the content in the cache.
- 1 55. The system of claim 52, wherein the client includes a cache management
- 2 module configured to implement cache replacement algorithms to add or
- 3 remove content from the cache.

1	56.	The system of claim 50, wherein the client includes a cache management
2	modu	ale configured to monitor usage of the pre-fetched content in the cache.
1	57.	A system for transferring files among devices in a network, comprising:
2		means for requesting a transfer of a file from a source device;
3		means for scheduling the transfer of the file to be completed by a
4		deadline; and
5		means for transferring the file from the source device to a destination
6		device, whereby the file transfer is complete by the deadline.
1	58.	A system for transferring files among devices in a network, comprising:
2		a plurality of servers configured to deliver content to the devices in the
3		network;
4		a plurality of clients configured to receive content from the plurality of
5		servers; and
6		a scheduling module configured to determine schedules for delivery of
7		content from the plurality of servers to the plurality of clients, the
8		schedules being based on available bandwidth at the plurality of
9		servers, available bandwidth at the plurality of clients, and
10		available bandwidth in the network.